

CLAIM AMENDMENTS

1. (Currently Amended) ~~A system for performing a medical procedure on a patient~~
medical device, comprising:

~~a medical device comprising:~~

~~a holding portion;~~

~~a shaft associated with said holding portion and having a distal portion for~~
~~performing a medical procedure on a patient~~ end and a proximal end;

an operative element carried by said distal shaft end;

a handle carried by said proximal shaft end; and

~~an actuating assembly located proximal to said holding portion~~ element associated
with said handle and configured for initiating a medical function; and

~~a user programmable processing device coupled to said actuating assembly, said~~
~~processing device being user programmable to initiate at least one of a plurality of functions~~
~~in response to actuation of said actuating assembly~~ configured for allowing a user to define
an association between said medical function and a specific manner in which said actuating
element is actuated.

2-24. (Cancelled)

25. (Currently Amended) ~~A system for performing a medical procedure on a patient~~
~~a plurality of medical functions~~ medical device, comprising:

~~a handle and a shaft attached thereto, said shaft having a distal portion for~~
~~performing the procedure~~ end and a proximal end;

at least one operative element carried by said distal shaft end;

a handle carried by said proximal shaft end; and

an actuating assembly element associated with the said handle, the actuating assembly ~~be actuatable by a person holding said handle~~ and configured for initiating a plurality of different medical functions in a predetermined sequence, wherein at least two of said plurality of medical functions are respectively initiated in response to at least two actuations of said actuating element

~~wherein said system commences a first predetermined function in response to application of pressure on said actuating assembly;~~

~~said system stops said first predetermined function when said pressure is removed;~~

~~said system commences a second predetermined function in response to application of pressure on said actuating assembly after said first predetermined function is stopped;~~
and

~~said system stops said second predetermined function when said pressure is removed.~~

26. (Cancelled)

27. A medical device ~~for use by an operator to perform a medical procedure in the cardiovascular system of a patient, said device, comprising:~~

~~a handle having a shaft attached thereto, a distal portion of said shaft being insertable into a patient's heart; and~~ having a distal end and a proximal end;

at least one operative element carried by said distal shaft end;

a handle carried by said proximal shaft end; and

an actuating assembly ~~proximal to said~~ element associated with said handle ~~to initiate at least two predetermined,~~ wherein at least two different medical functions are

assigned to said actuating element, such that said at least two different medical functions,
~~said actuating assembly being actuatable in at least two different manners, wherein each of~~
~~said at least two predetermined functions correlates to a respective one of said at least two~~
are individually initiated when said actuating element is respectively actuated in at least two
different manners.

28-43 (Cancelled).

44. (New) The medical device of claim 1, wherein said actuating element is configured for initiating a plurality of different medical functions, and wherein said processing device is configured for allowing a user to define an association between said plurality of medical functions and a specific manner in which said actuating element is actuated.

45. (New) The medical device of claim 44, wherein said processing device is configured for allowing said user to associate a defined sequence of said plurality of medical functions with said actuating element, such that said plurality of medical functions is initiated in said sequence in response to said specific actuating manner.

46. (New) The medical device of claim 45, wherein said specific actuating manner comprises repeatedly actuating said actuating element.

47. (New) The medical device of claim 1, wherein said processing device is configured for allowing said user to define said medical function.

48. (New) The medical device of claim 1, wherein said processing device is configured for allowing said user to define said specific actuating manner.

49. (New) The medical device of claim 48, wherein said processing device is configured for allowing said user to define a number of actuations of said actuating element within a predetermined period of time.

50. (New) The medical device of claim 48, wherein said processing device is configured for allowing said user to define a period of time in which said actuating element is actuated.

51. (New) The medical device of claim 1, wherein said operative element is configured for being used in a performance of said medical function.

52. (New) The medical device of claim 1, wherein said shaft is an intravascular catheter shaft.

53. (New) The medical device of claim 1, wherein said processing device is coupled to said handle via an external cable.

54. (New) The medical device of claim 25, wherein:

a first of said plurality of medical functions is configured for being initiated when pressure is applied to said actuating element;

said first function is configured for being terminated when said pressure is released from said actuating element;

a second of said plurality of medical functions is configured for being initiated when pressure is again applied to said actuating element; and

said second function is configured for being terminated when said pressure is again released from said actuating element.

55. (New) The medical device of claim 25, wherein said at least one operative element comprises one or more electrodes, and said plurality of medical functions

comprises delivering ablation energy to said one or more electrodes, and processing mapping signals received from said one or more electrodes.

56. (New) The medical device of claim 25, wherein said at least one operative element comprises a mapping basket, said plurality of medical functions comprises expanding said mapping basket, mapping with said mapping basket, and collapsing said mapping basket.

57. (New) The medical device of claim 25, further comprising another actuating element associated with said handle, said other actuating element terminating said sequence of functions when actuated in a specific manner.

58. (New) The medical device of claim 25, further comprising a processor configured for presenting a list of said sequence of functions and highlighting a function that is currently being performed.

59. (New) The medical device of claim 25, wherein one of said plurality of medical functions is a therapeutic function, and wherein said system is configured for providing a warning signal when said therapeutic function is next in said sequence.

60. (New) The medical device of claim 59, wherein said therapeutic function comprises delivering ablation energy.

61. (New) The medical device of claim 25, wherein said handle provides a user with feedback when said system commences each of said medical functions.

62. (New) The medical device of claim 25, wherein said at least one operative element is configured for being used in a performance of said medical functions.

63. (New) The medical device of claim 25, wherein said shaft is an intravascular catheter shaft.

64. (New) The medical device of claim 27, wherein said actuating element has at least two positions and initiation of said at least two medical functions are respectively dependent on said at least two positions.

65. (New) The medical device of claim 27, wherein said actuating element has a first relaxed position, a second unrelaxed position, and a third unrelaxed position, wherein said switch is biased towards said first position upon release of pressure placed on said switch, and said second position is one of said at least two different manners, and said third position is another of said at least two different manners.

66. (New) The medical device of claim 27, wherein said first actuating manner comprises actuating said actuating element a first number of times within a defined period of time, and said second actuating manner comprises actuating said actuating element a second different number of times within said defined period of time.

67. (New) The medical device of claim 27, wherein said first actuating manner comprises actuating said actuating element for a first defined period of time, and said second actuating manner comprises actuating said actuating element for a second different defined period of time.

68. (New) The medical device of claim 27, wherein said at least one operative element is configured for being used in a performance of said at least two medical functions.

69. (New) The medical device of claim 27, wherein said shaft is an intravascular catheter shaft.

70. (New) A medical device, comprising:

a shaft having a distal end and a proximal end;

at least one operative element carried by said distal shaft end;

a handle carried by said proximal shaft end; and

an actuating element associated with said handle element and configured for initiating one of at least two different medical functions when actuated a first number of times within a defined period of time and initiating another of said at least two medical functions when actuated a second different number of times within said defined period of time.

71. (New) The medical device of claim 70, wherein said first number of times is one time, and said second number of times is two times.

72. (New) The medical device of claim 70, wherein said at least one operative element is configured for being used in a performance of said at least two medical functions.

73. (New) The medical device of claim 70, wherein said shaft is an intravascular catheter shaft.

74. (New) A medical device, comprising:

a shaft having a distal end and a proximal end;

an operative element carried by said distal shaft end;

a handle carried by said proximal shaft end; and

an actuating element associated with said handle and configured for initiating a function; and

a user programmable processing device configured for allowing a user to define a specific manner in which said actuating element is actuated to initiate said function.

75. (New) The medical device of claim 74, wherein said processing device is configured for allowing said user to define a number of actuations of said actuating element within a predetermined period of time.

76. (New) The medical device of claim 74, wherein said processing device is configured for allowing said user to define a period of time in which said actuating element is actuated.

77. (New) The medical device of claim 74, wherein said operative element is configured for being used in a performance of said function.

78. (New) The medical device of claim 74, wherein said processing device is coupled to said handle via an external cable.

79. (New) A medical device, comprising:

a shaft having a distal end and a proximal end;

at least one operative element carried by said distal shaft end;

a handle carried by said proximal shaft end; and

an actuating element associated with said handle; and

a processing device configured for presenting a list of different medical functions, wherein said actuating element is configured for being actuated to advance through said medical function list and for being actuated to select initiation of one of said medical functions.

80. (New) The medical device of claim 79, wherein said medical function list is divided into a plurality of categories.

81. (New) The medical device of claim 79, wherein said actuating element is configured for advancing from one function in said medical function list to a subsequent

function in said medical function list when actuated one time within a defined period of time, and configured for selecting a current function in said medical function list when actuated two times within said defined period of time.

82. (New) The medical device of claim 79, wherein said at least one operative element is configured for being used in a performance of said medical function.

83. (New) The medical device of claim 79, wherein said processing device is coupled to said handle via an external cable.

84. (New) A medical device, comprising:
a shaft having a distal end and a proximal end;
at least one operative element carried by said distal shaft end;
a handle carried by said proximal shaft end; and
an actuating element associated with said handle;
a processing device configured for marking or highlighting a displayed image when the actuating element is actuated.

85. (New) The medical device of claim 84, wherein said processing device is coupled to said handle via an external cable.